PATENT COOPERATION TREATY

PATENI COUPERATION TREATT				
From the INTERNATIONAL SEARCHING AUTHORITY				
To: DONALD J. FIRCA, ESQ. ROETZEL & ANDRESS 222 SOUTH MAIN STREET AKRON, OH 44308	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
,	Date of mailing (day/month/year) 4 JJJ 2005			
Applicant's or agent's file reference 089498-0474PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US04/34274	International filing date (day/month/year) 18 October 2004 (18.10.2004)			
Applicant THE UNIVERSITY OF AKRON				
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no international search report will be established and that the dectaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the international Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not preliminary examination report has been or is to be established. These comments would also be made available to the public but not				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide,				
Volume II, National Chapters and the WIPO Internet site.	1 de la como de la com			

Authorized officer

Stephen J. Stein

Telephone No. 571-272-1700

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 22313-1450

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 089498-0474PCT	FOR FURTHER see I ACTION as well as, who	Form PCT/ISA/220 re applicable, item 5 below.		
International application No. PCT/US04/34274	International filing date (day/month/year) 18 October 2004 (18.10.2004)	(Earliest) Priority Date (day/month/year) 16 October 2003 (16.10.2003)		
Applicant THE UNIVERSITY OF AKRON				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.				
1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished				
to this Authority (Rule 23.1(b)).				
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II)				
3. Unity of invention is lacking 4. With regard to the title, the text is approved as subm	ig (See Box No. III)			
5. With regard to the abstract, the text is approved as subm the text has been established may, within one month from	nitted by the applicant. I, according to Rule 38.2(b), by this Authority n the date of mailing of this international search	as it appears in Box No. IV. The applicant h report, submit comments to this Authority.		
as suggested by the	Authority, because the applicant failed to sugg Authority, because this figure better characterize	est a figure.		

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/34274

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7)	: D01F 9/12, D02G 3/00	7 1	Ì	
US CL	: 428/220, 408, 364, 367, 374, 401; 423/445R, 44 International Patent Classification (IPC) or to both nati	onal classification and IPC		
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	OS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 428/220, 408, 364, 367, 374, 401; 423/445R, 447.1				
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
Documentation Sea State Constitution of the Co				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West Electronic Database (USPAT/PGPUBS/EPO/JPO/Derwent)				
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X	US 6,346,136 B1 (CHEN et al) 12 February 2002 (12	.02.2002), column 1, liunes 5-10, col. 3,	1-4, 7, 8, 10-15 and 21	
	lines 1-35).	16		
Y				
x	US 6,432,866 B1 (TENNENT et al) 13 August 2002 column 5, lines 1-8, col. 6, lines 1-66.	1, 2, 4, 7-15, 17, 18, 22, 23-28 and 32		
Y	Column 5, intes 1-6, con 6, inter 1 con		3 16 and 10	
			3, 16 and 19	
			Ì	
,				
Further	documents are listed in the continuation of Box C.	See patent family annex.		
* S	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic	mational filing date or priority	
"A" document	defining the general state of the art which is not considered to be of	principle or theory underlying the inves		
	relevance plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider	laimed invention cannot be red to involve an inventive step	
_	which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone		
establish specified)	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such document	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	er amus possessimentes posses	
	t published prior to the international filing date but later than the ate claimed	"&" document member of the same patent	(amily	
	ctual completion of the international search	Date of mailing of the international sear 1 4 JUL 2005	ch report	
	27 June 2005 (27.06.2005)			
Name and m	ailing address of the ISA/US	Authorized officer	1/1/1/	
	il Stop PCT, Attn: ISA/US mmissioner for Patents	Stephen J. Stein	104 / I	
P.C	P.O. Box 1450			
	Alexandria, Virginia 22313-1450 Faccircile No. (703) 305-3230			